

AMENDMENTS TO THE SPECIFICATION

Please amend the specification beginning at page 9, line 32 as follows:

[0049] A previously proposed communications network system has the gateway such as to determine an acceptance or inhibit of a passage for the ID code assigned to the transmission data. However, in the first embodiment, the gateway 50 is provided with a memory [[502]] 502A in which the ID codes allowing the passage of the transmission data and their communication periods of the transmission data having the ID codes allowing the passage thereof and carries out the passage enable and disable of the transmission data on the basis of the ID code and communications period of the transmitted data.

Please amend the specification beginning at page 13, line 5 as follows:

[0064] The gateway 50 includes: the memory [[502]] 502A previously storing the ID codes on the intersection data to accept the communication via the communications line 70 and road gradient value data to accept the same and their communications periods in pairs as: (ID (code), communication periods in milliseconds) = (ID0001, 500 (milliseconds)), (ID0010, 100(milliseconds)), ---.

Please amend the specification beginning at page 13, line 12 as follows:

[0065] Then, comparing the ID code of the actually transmitted data on the communications line 70 and its communications period within those of the stored in a pair form in the memory [[502]] 502A by means of a determining section [[501]] 501A to determine whether both of them are equal to each other, respectively.

Please amend the specification beginning at page 15, line 22 as follows:

[0079] Figs. 4A through 4D show a case where a trouble in an output circuit of display unit 80 occurs and ID on the destination set data is changed from ID0011 to ID0001. The destination set data pulses 401 through 411 having ID0001 are transmitted serially from display unit 80. Figs. 4A through 4D show that the destination set data pulses 401 through 411 are erroneously provided with ID0001 which have the same magnitude of amplitude of the pulses equal to intersection data (ID0001) having the same ID code. The destination set data pulses 401 through 411 have ID0001. Hence, in the gateway 50, upon the determination of a first pulse of the intersection data 201 (or destination set data 401), the subsequent destination set data pulses 402, 403, --- are detected. In this case, since an interval of time β between the intersection data 201 and destination set data 402 is 50 (milliseconds), the interval of time is shorter than the communications period (500 milliseconds) stored in a memory location at which the data communications period of the transmitted data having ID0001 is stored. Hence, the determining section [[501]] 501A of gateway 50 determines that both periods are unequal to (or incoincident with) each other and that the trouble in any one of the units in the information series network B.

Then, a communications control section 503 of gateway 50 inhibits a passage of the transmission data having ID0001 of the transmitted data pulses 201 and 401 and its subsequent data pulses having ID0001. If the trouble is determined to occur, the gateway 50 (communication control section 503) transmits a promotion signal 500 (denoted by each broken line in Figs. 4A and 4C) to the units from which the data having ID0001 is transmitted serially to request ID code change to a new ID code on the communications line 70.

Please amend the specification beginning at page 17, line 20 as follows:

[0085] It is noted that gateway 50 stores communications accepting ID0001 and communications period of 500 milliseconds in the pair form (specifically, in the same address) in memory [[502]] 502A and, when the set change procedure described above occurs, ID field is only rewritten from ID0001 to ID0110. In addition, the automatic transmission control unit upon receipt of the signal 502 changes the recognized ID to retrieve the transmitted data having ID0110 on the communications line 70 as intersection data.

Please amend the specification beginning at page 23, line 1 as follows:

[0114] It is also noted that although, in the explanation of the first embodiment with reference to Figs. 3A through 4D, the ID codes and the communications periods which serve as the communication acceptance ID codes and communications periods thereof are stored in two pairs in memory [[502]] 502A, these communications acceptance ID codes may previously stored up

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to N number with or without the corresponding acceptance communications periods for spare purposes.